CLAIM SUMMARY

1. (Currently Amended) A dipole antenna for a wireless communication device comprising:

a first conductive element superimposed a portion of and separated from a second conductive element by a first dielectric layer;

a first conductive via connects the first and second conductive elements through the first dielectric layer;

the first conductive element being L-shaped;

the second conductive element being generally U-shaped;

the second <u>conductive elementeonductor</u> including a plurality of spaced conductive strips extending transverse from adjacent ends of the <u>each</u> legs of the U-shape; and

each strip on a leg being dimensioned for a different λo .

- 2. (Canceled)
- 3. (Currently Amended) The antenna according to claim 21, wherein one of the legs of the L-shape is superimposed one of the legs of the U-shape.
- 4. (Original) The antenna according to claim 3, wherein the first conductive via connects the other leg of the L-shape to the other leg of the U-shape.
- 5. (Currently Amended) The antenna according to claim-21, wherein the first conductive via connects an end of one of the legs of the L-shape to one of the legs of the U-shape.
- 6. (Original) The antenna according to claim 1, wherein the first and second conductive elements are each planar.
- 7. (Original) The antenna according to claim 1, wherein each strip has a width less than 0.05 λo and a length of less than 0.5 λo .
- 8. (Original) The antenna according to claim 1, wherein the antenna is omnidirectional and a gain exceeding 4 dB.
- 9. (Currently Amended) A dipole antenna for a wireless communication device comprising:

a first conductive element superimposed a portion of and separated from a second conductive element by a first dielectric layer;

a first conductive via connects the first and second conductive elements through the first dielectric layer;

the first conductive element being L-shaped;

the second conductive element being generally U-shaped;

the second conductor including a plurality of spaced conductive strips extending transverse from adjacent ends of each leg of the U-shape;

each strip on a leg being dimensioned for a different λο;

The antenna according to claim 1, including a ground plane conductor superimposed and separated from the second conductive element by a second dielectric layer;

a third conductive element superimposed and separated from the strips of the second conductive element by the first dielectric layer; and

a second conductive via connecting the third conductive element to the ground conductor through the dielectric layers.

- 10. (Original) The antenna according to claim 9, wherein the first and third conductive elements are co-planar.
- 11. (Original) The antenna according to claim 9, wherein the third conductive element includes a plurality of fingers superimposed a portion of lateral edges of each of the strips.
- 12. (Original)The antenna according to claim 9, wherein a first and last finger superimposed a first and last strip on each leg of the U-shape extend laterally beyond the lateral edges of the respective strips.
- 13. (Original) The antenna according to claim 9, wherein the permeability of the first dielectric layer is substantially greater than the permeability of the second dielectric layer.
- 14. (Original) The antenna according to claim 13, wherein the thickness of the first dielectric layer is substantially less than the thickness of the second dielectric layer.
- 15. (Original) The antenna according to claim 9, wherein the thickness of the first dielectric layer is at least half the thickness of the second dielectric layer.
- 16. (Original) The antenna according to claim 9, wherein the antenna is directional and has a gain exceeding 7 dB.
- 17. (Original) The antenna according to claim 1, wherein the first dielectric layer is a substrate, and the first and second conductive elements are printed elements on the substrate.
- 18. (Original) The antenna according to claim 1, wherein the plurality of strips are parallel to each other.
- 19. (New) The antenna according to claim 1, wherein one of leg of the L-shape is superimposed on one leg of the U-shape and a portion of another leg of the L-shape is superimposed on another leg of the U-shape.

Section .